

## **Integrating Public and Private Network Resources for Optimized Broadband Wireless Access and Method**

### **ABSTRACT OF THE DISCLOSURE**

A system and method are disclosed for providing ubiquitous public network  
5 access to wireless, mobile terminals using private networks having private network access  
points and connections with the public network. The wireless, mobile terminals are permitted  
to use wireless, radio frequency communication devices comprising private network access  
points. A network access server (NAS) is associated with each wireless, radio frequency  
communication device and provides an interface between the wireless, mobile terminals and  
10 the private network. The NAS controls registration of wireless, mobile terminals as  
subscribers, and provides public network access to the mobile terminals through the private  
network's access point and public network connection. The NAS also restricts access by the  
mobile terminals to the private network, meters network useage by the mobile terminals, and  
controls use of bandwidth by the mobile terminals. The NAS also interfaces with integration  
15 operator distributed services over the public network. The integration operator services  
include databases and servers for storing and providing subscriber and network provider  
information for subscriber registration, network access and useage control, and accounting  
purposes. The NAS may be provided as a standalone element embodied in a computer, or  
may be integrated with the wireless radio frequency device and/or a network adaptor device  
20 for the private network.

PA 3138395 v1